

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-5 (cancelled).

6 (previously presented). A microfabricated cell injector comprising an internal surface defining a conduit for transporting cells suspended in a fluid, the conduit having an inlet and an outlet, the conduit further comprising a cell injection needle for piercing cells, such that, in use cells enter the injector via the inlet, are moved along the conduit and are pierced by the cell injection needle whereupon material is (1) injected into the cell, (2) extracted from the cell, or (3) injected into the cell and then extracted from the cell the steps being in any order and any number of times, and the cells are then moved to the outlet.

7 (currently amended). A microfabricated cell injector as claimed in claim 1 or claim 6-where the needle is a hollow structure and injection or extraction is actuated by a cell sensor at an injection area which determines the presence of a cell on or nearby the needle.

8 (currently amended). A microfabricated cell injector as claimed in claim 1 or claim 6-which additionally comprises a cell capture sensor at an injection position which determines the presence of a pierced cell on the injection needle and actuates injection

of material into the cell or extraction of material from the cell.

9 (previously presented). A microfabricated cell injector as claimed in claim 8 wherein the cell capture sensor prevents further cells being impelled towards the needle.

10 (previously presented). A microfabricated cell injector as claimed in claim 8 wherein the cell capture sensor actuates the expulsion of the cell from the needle after injection of the material into the cell or extraction of material from the cell.

11 (currently amended). A microfabricated cell injector as claimed in ~~claim 1 or~~ claim 6 wherein the needle is solid and material for injection is present within the fluid suspending the cells.

12 (currently amended). A microfabricated cell injector as claimed in ~~claim 1 or~~ claim 6 wherein the needle is a non-cell piercing hollow structure and cell piercing is achieved by a cell disrupting chemical or force being applied through the end of the non-cell piercing needle structure.

13 (currently amended). A microfabricated device containing a plurality of cell injector units as claimed in ~~claim 1 or~~ claim 6 wherein the respective inlets and outlets of the cell injecting units being each connected such that the cells are divided into each injector unit and recombined after injection.

14 (previously presented). A method for the microinjection of cells which method comprises passing a suspension of cells in a fluid through a conduit, the conduit comprising an inlet and an outlet, the cells entering the conduit via the inlet, the conduit further comprising a cell injection needle, the cells thereby being pierced by the injection needle and material is: (1) injected into the cell (2) extracted from the cell or (3) injected into the cell and then extracted from the cell the steps being in any order and any number of times; as the cells pass through the conduit, and moving the cells to the outlet.

15-17 (cancelled).